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L1: Entry 38 of 51

File: DWPI

Apr 27, 1989

DERWENT-ACC-NO: 1989-178595

DERWENT-WEEK: 198925

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TITLE: Mineral insulated metal sheathed cable - includes nickel alloy sheath and at least one of tungsten molybdenum niobium and tantalum

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BELL-IRH LTD

BELLN

NICROBELL PTY LTD

NICRN

PRIORITY-DATA: 1987AU-0005032 (October 23, 1987), 1987AU-0012149 (October 23, 1987), 1988AU-0012149 (February 19, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 8812149 A	April 27, 1989		032	
BR 8801908 A	May 23, 1989		000	
CN 1032710 A	May 3, 1989		000	
EP 322992 A	July 5, 1989	E	000	
EP 322992 A3	July 8, 1992		000	
JP 01130412 A	May 23, 1989		000	
US 5010316 A	April 23, 1991		000	

DESIGNATED-STATES: DE FR GB IT

CITED-DOCUMENTS:No-SR.Pub; 1.Jnl.Ref ; AU 40913 ; DE 1133443 ; DE 1464128 ; DE 3636468 ; EP 218379 ; GB 507167 ; GB 733535 ; GB 746274 ; GB 952679 ; US 2815283 ; US 3972740 ; US 3973997

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU 8812149A	October 23, 1987	1987AU-0012149	
EP 322992A	March 1, 1988	1988EP-0301750	
EP 322992A3	March 1, 1988	1988EP-0301750	
JP 01130412A	June 27, 1988	1988JP-0159037	
US 5010316A	February 24, 1988	1988US-0159923	

INT-CL (IPC): C22C 19/05; G01K 7/02; H01B 1/16; H01B 7/16; H01B 9/02; H01C 1/03; H01L 35/20

ABSTRACTED-PUB-NO: AU 8812149A

BASIC-ABSTRACT:

Mineral-insulated metal-sheathed cable has a sheath alloy of compsn. (in wt.%): Cr 10-40 pref. 13.5-14.5, Nb 1-10 pref. 2-5, Si 0.5-5 pref. 1.3-1.5, Mg 0.5 max. pref. 0.1-0.2, Ce 0.5 max. pref. 0.1-0.2 and Ni the balance. The alloy may also include: Mo 1-20, W 0.5-25 and Ta 0.5-8.

USE/ADVANTAGE - As a thermocouple device, heating element or heat detector. (claimed). The Ni alloy provides good thermo-mechanical performance and stability at temps. up to 1300 deg.C..  
ABSTRACTED-PUB-NO:

US 5010316A  
EQUIVALENT-ABSTRACTS:

In mineral insulated, metal-sheathed (MIMS) cable sheath alloy has following concn. compsn. Cr 14.0+/- 0.5 wt.%, Nb 3.5+/-2.5 wt.%, Si 1.4+/-0.1 wt.%, Mg 0.15+/- 0.05 wt.%, Ge 0.05+/-0.05 wt.% and remainder Ni.

Pref. Ni-base thermocouple cables provided by above method

have enhanced thermomechanical properties, oxidn. resistance, greater longevity and greater thermoelectric stability under longer periods and over temp. range up to 1300 deg.C.

USE/ADVANTAGE - For thermocouple cables, heat detectors and heating elements partic. useful at high temp. (9pp)

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: MINERAL INSULATE METAL SHEATH CABLE NICKEL ALLOY SHEATH ONE TUNGSTEN MOLYBDENUM NIOBIUM TANTALUM

DERWENT-CLASS: L03 M26 S03 X12 X25

CPI-CODES: L03-A01A5; L03-A01B1; M26-B08; M26-B08C; M26-B08J; M26-B08M; M26-B08N; M26-B08S; M26-B08T; M26-B08X;

EPI-CODES: S03-B01A; X12-D03X; X25-B01E;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-078879

Non-CPI Secondary Accession Numbers: N1989-136432